

Appl. No. 10/710,370
Amdt. dated January 02, 2006
Reply to Office action of October 05, 2005

Amendments to the Claims:

Listing of Claims:

Claim 1 (currently amended) A method of regenerating filter media in a filter, comprising:

- 5 adding an alkali medicament into the filter to adjust a water solution in the filter to be alkaline;
 introducing air into the filter; ~~and~~
 performing a reverse rinsing process to provide water from a bottom of the filter so that the water solution in the filter turns neutral; and
10 performing a sterilizing process by adding sodium hypochlorite (NaOCl) into the filter when the water solution in the filter is neutral.

Claim 2 (original) The method of claim 1, further comprising performing a draining process before adding the alkali medicament.

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Claim 3 (cancelled)

Claim 4 (cancelled)

20 Claim 5 (cancelled)

Claim 6 (original) The method of claim 1, wherein the alkali medicament is added in accordance with water contained in the filter so as to maintain a pH value of a water solution in the filter between 8.5 and 11.

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Claim 7 (currently amended) A method of regenerating filter media in a filter, the filter comprising a water solution and the filter media having a plurality of flocs including aluminum ions adhered thereto, the method

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comprising:

transforming the aluminum ions in the filter into complex ions carrying negative charges by adjusting the water solution in the filter to be alkaline;

introducing air into the filter to break up the flocs; ~~and~~

- 5 performing a reverse rinsing process to implant water from a bottom of the filter so that the flocs float up and are drained away from the filter; and
performing a sterilizing process when the water solution in the filters turns neutral.

- 10 Claim 8 (original) The method of claim 7, wherein the aluminum ions are transformed into the complex ions by adding an alkali medicament.

- Claim 9 (original) The method of claim 8, wherein the alkali medicament is added in accordance with water contained in the filter so as to maintain an
15 pH value of the water solution in the filter between 8.5 and 11.

- Claim 10 (original) The method of claim 8, further comprising performing a draining process before adding the alkali medicament so as to drain the water solution away from the filter until the water solution reaches a low
20 level.

Claim 11 (cancelled)

- Claim 12 (currently amended) The method of claim ~~[[11]]~~ 7, wherein the
25 sterilizing process is performed along with the reverse rinsing process to add sodium hypochlorite (NaOCl) into the filter.

Claim 13 (cancelled)